

ABSTRACT

A high-frequency circuit element including a substrate, a high-frequency circuit formed on the substrate, a metal box electromagnetically shielding the high-frequency circuit by enclosing the substrate and an input/output terminal placed on the metal box and inputting/outputting a high-frequency signal to/from the high-frequency circuit. Adding at least one plate for interrupting unwanted higher-order mode cutting off the propagation path of the high frequency waves in the space inside the metal box by substantially dividing the space inside the metal box makes it possible to cut off the propagation path where the high frequency waves propagates in the space inside the box and to suppress excitation and propagation of the unwanted higher-order mode that adversely affects the frequency characteristic of the high frequency circuit element.

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